

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
16 December 2004 (16.12.2004)

PCT

(10) International Publication Number
WO 2004/109288 A1

- (51) International Patent Classification: **G01N 33/68, 33/53, C12Q 1/68, A61K 38/17, 39/395, 48/00, A61P 29/00**
- (21) International Application Number: **PCT/SE2004/000861**
- (22) International Filing Date: **3 June 2004 (03.06.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
0313081.2 6 June 2003 (06.06.2003) GB
0327427.1 26 November 2003 (26.11.2003) GB
- (71) Applicant (*for all designated States except US*): **ASTRAZENECA AB [SE/SE]; S-151 85 Södertälje (SE)**
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **CORNELIUSSEN, Brit [SE/SE]; AstraZeneca R & D Mölndal, S-431 83 Mölndal (SE); SCHREIBER, Stefan [DE/DE]; Christian-Albrechts-University....., 1st Department of Medicine....., Schittenhelmstrasse 12, 24105 Kiel (DE); STOLL, Monika [DE/DE]; Christian-Albrechts-University....., 1st Department of Medicine....., Schittenhelmstrasse 12, 24105 Kiel (DE).**
- (74) Agent: **ASTRAZENECA; Global Intellectual Property, S-151 85 Södertälje (SE).**
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): **AL, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PII, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): **ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CR, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/109288 A1

(54) Title: **METHOD FOR DIAGNOSING INFLAMMATORY BOWEL DISEASE**

(57) **Abstract:** The present invention relates to a method for identifying a compound capable of modulating the action of the DLG5 protein which method comprises subjecting one or more test compounds to a screen comprising a polypeptide containing the amino acid sequence shown in SEQ ID NO: 2, or a homologue thereof or a fragment of either. Such compounds may be useful in the treatment of inflammatory bowel disease. The present invention also relates to a method for diagnosing inflammatory bowel disease by detecting variant DLG5.

BEST AVAILABLE COPY